

Title (en)  
Image forming apparatus for correcting magnification of image

Title (de)  
Bildaufnahmeverrichtung zum Korrigieren einer Bildvergrößerung

Title (fr)  
Dispositif de formation d'image pour corriger l'agrandissement

Publication  
**EP 1634711 A3 20060712 (EN)**

Application  
**EP 05019884 A 20050913**

Priority  
• JP 2004265698 A 20040913  
• JP 2004270049 A 20040916

Abstract (en)  
[origin: EP1634711A2] A detector (25, 26; 1025, 1026) is arranged on either side of an image carrier (11; 1011) with respect to a horizontal scanning direction. Each detector (25, 26; 1025, 1026) detects an optical beam deflected by a deflector (32; 1032). A measuring unit measures a time difference between detections of the optical beams by optical beam detectors (25, 26; 1025, 1026). A magnification correcting unit (61; 1061) determines whether a phase adjustment amount exceeds a threshold, performs a magnification correction of an image by phase modulation if the phase adjustment amount does not exceed the threshold, and performs magnification correction of an image by frequency modulation if the phase adjustment amount exceeds the threshold.

IPC 8 full level  
**B41J 2/47** (2006.01)

CPC (source: EP)  
**G02B 26/127** (2013.01)

Citation (search report)  
• [A] US 2003067533 A1 20030410 - OMORI ATSUFUMI [JP], et al  
• [A] US 6219085 B1 20010417 - HANNA STEPHEN DALE [US]  
• [A] US 6459520 B1 20021001 - TAKAYAMA HIDEMI [JP]  
• [A] US 6236418 B1 20010522 - YAMAKAWA TAKESHI [JP]  
• [A] US 6157400 A 20001205 - GENOVESE FRANK C [US]  
• [T] JOHN C. MALLINSON: "Frequency Modulation in Video Tape Recorders", IEEE TRANSACTIONS ON MAGNETICS, vol. 34, no. 6, November 1998 (1998-11-01), pages 3916 - 3921, XP011032099

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1634711 A2 20060315; EP 1634711 A3 20060712; EP 1634711 B1 20090805**; DE 602005015797 D1 20090917

DOCDB simple family (application)  
**EP 05019884 A 20050913**; DE 602005015797 T 20050913